

# HP Fixed Cord Power Distribution Unit and Extension Bars

## Installation Instructions



### *Read Instructions Completely Before Beginning Installation Procedures*

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HP Fixed Cord Power Distribution Unit and Extension Bars Installation Instructions

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### **Audience Assumptions**

This document is for the person who installs power products. No installation or service procedure should be carried out by someone other than a technician with specific experience with high-voltage equipment. HP assumes you are qualified in the servicing of high-voltage equipment and trained in recognizing hazards in products with hazardous energy levels.

## Overview

These instructions serve as an outline to assist qualified personnel with the installation of this product.

The input voltage is either 100 to 120 VAC or 200 to 240 VAC, depending on the model. This product consists of a control unit with extension bars and is compatible with the HP 9000 and 10000 series racks.

The control unit provides:

- Flexible mounting in 0U or 1U configurations, maximizing rack space (no additional parts are required for mounting)
- Overcurrent and short-circuit protection for each output (UL-489 listed circuit breakers)
- Manual On/Off control for each of the output load groups
- Pilot light for main AC input
- IEC-320 C19 outlets to power extension bars or other IEC-320 C20 plug-compatible equipment
- Easy identification and reset of overload circuits (circuit breakers move to Off position), minimizing downtime
- Switch guards to prevent inadvertent power-off
- Power cord retention

The extension bars provide:

- Simplified power distribution for fixed rail, 1U servers by utilizing the extension bars with short, 33 cm (13 in), attached cords
- Improved cable management and air flow
- Two installation brackets to accommodate applications with either single-wide or dual power sources

## Important Safety Information

Before installing this product, read the *Important Safety Information* guide provided.



**WARNING:** To reduce the risk of personal injury from electric shock, do not remove the cover. There are no field-serviceable or user-serviceable components inside.



**WARNING:** A risk of personal injury from electric shock and hazardous energy levels exists. The installation of options and routine maintenance and service of this product must be performed by individuals who are knowledgeable about the procedures, precautions, and hazards associated with AC power products.

Follow these safety precautions when connecting multiple pieces of information technology equipment to power products.



**WARNING:** To reduce the risk of personal injury from high-leakage current, verify earth connection before connecting the power supply. The summation of input power for multiple pieces of information technology equipment through the use of power products can result in high-leakage currents. If the total system leakage current for a system of components exceeds 3.5 mA:

- The use of a detachable input power cord is prohibited.
- The input power cord must be securely attached and it should be connected to the AC mains by hardwiring or through the use of a non-residential, industrial-style plug that maintains positive earth connection.
- If the total system leakage current through the ground conductor exceeds five percent of the input current per line under normal operating conditions, the system loads should be divided among multiple power connections.

## Kit Contents

### Documentation

- *Important Safety Information* guide
- Warranty information
- This document

**NOTE:** This document is also available from the reference library at <http://www.hp.com>.

### Control Unit Hardware

- Control unit with an L6-30 plug
- Two 0U and two 1U mounting brackets
- One cord retention bracket

### Extension Bar Hardware

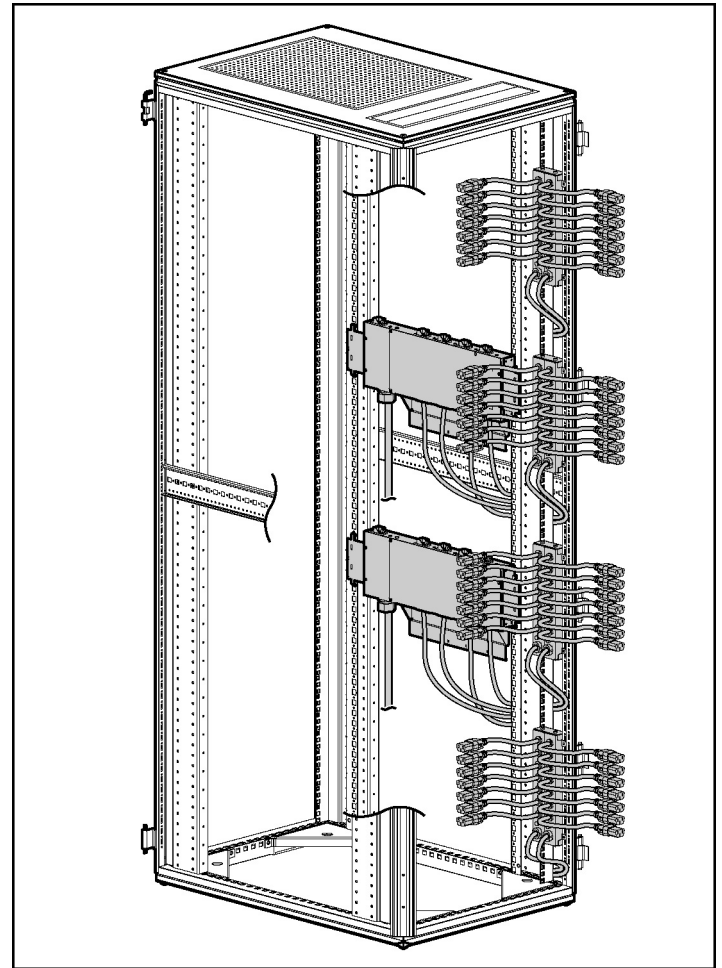
Model Number	of Extension Bars	Number of Single/Double Brackets
Kit with control unit	4	8/4
Kit with extension bars only	2 4/2	

## Tools Required

The following tools are required:

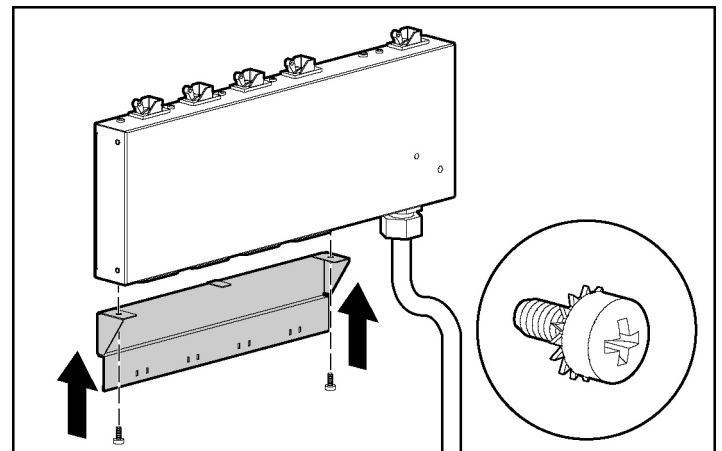
Phillips screwdrivers

## HP Fixed Cord PDU and Extension Bars



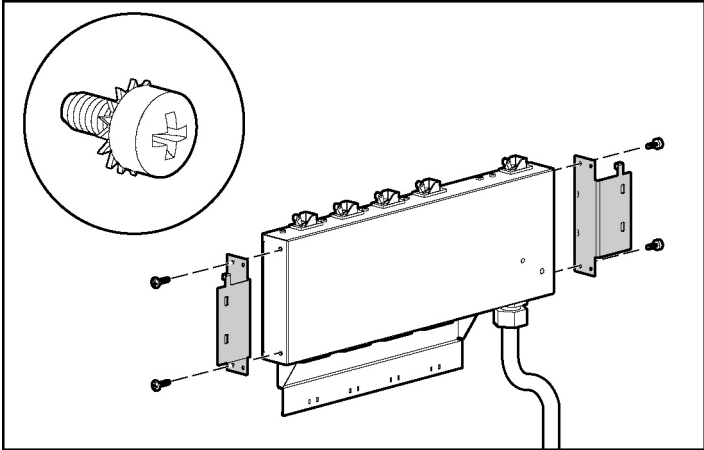
### Installing the Cord Retention Bracket

**NOTE:** If you ordered the fixed extension bars kit, skip to the "Installing the Extension Bars" section of this document.

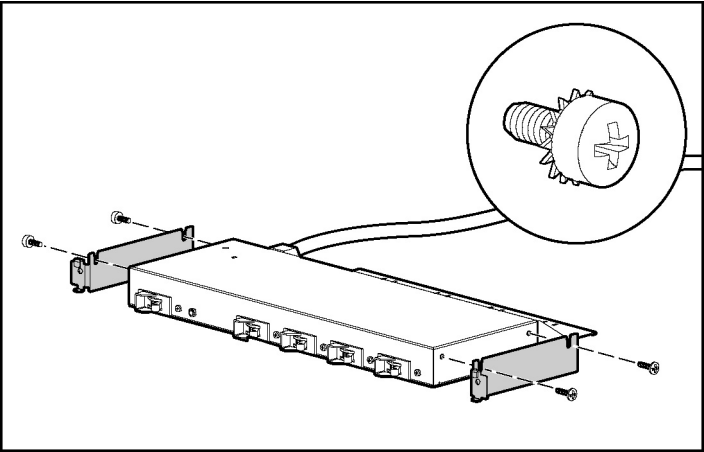


# Installing the Control Unit

## Installing the 0U Brackets

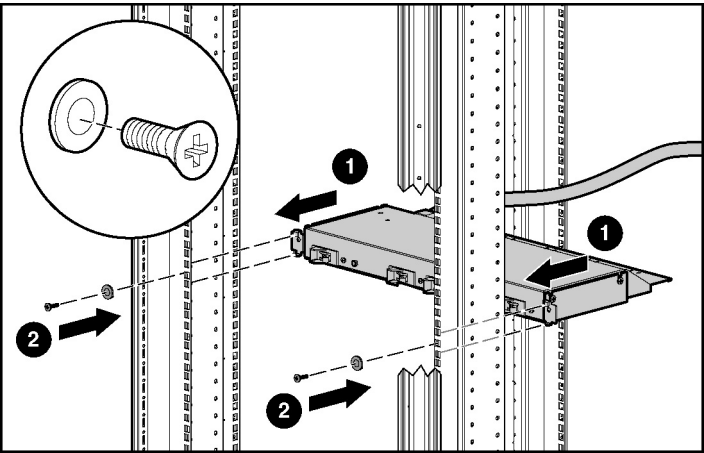
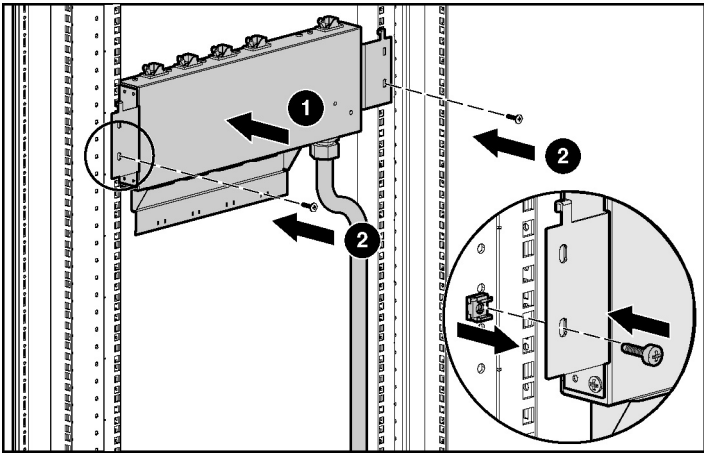


## Installing the 1U Brackets



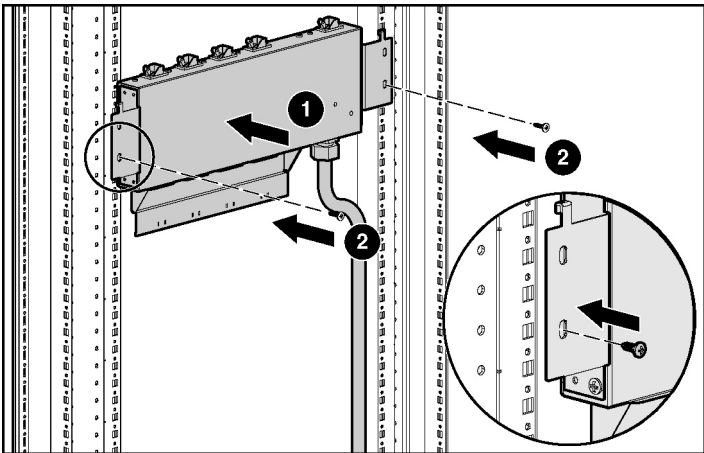
## Installing in a Square-Holed Rail

**NOTE:** Use the M6 screw and cagenut that shipped with the rack when installing in a square-holed rail.



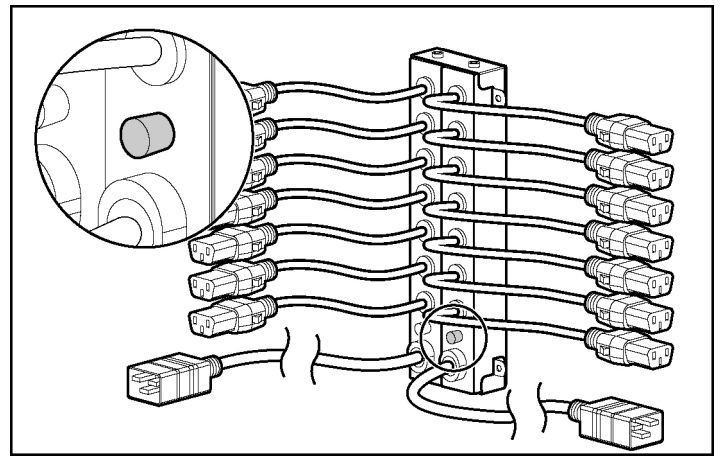
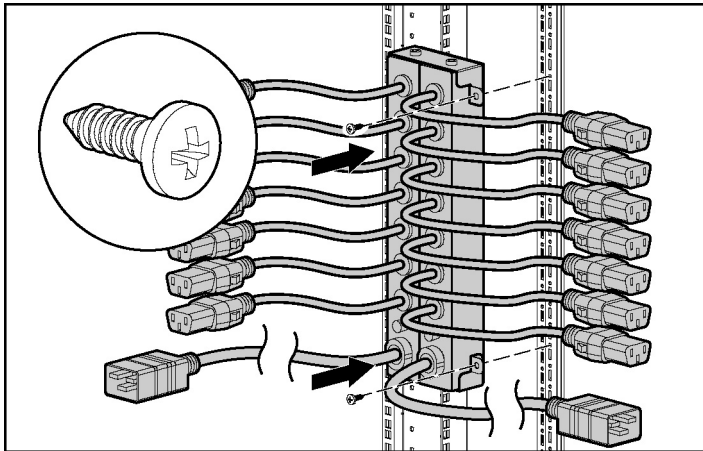
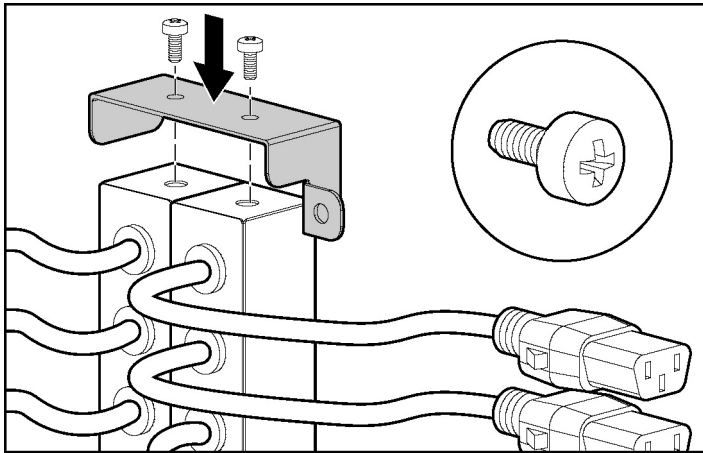
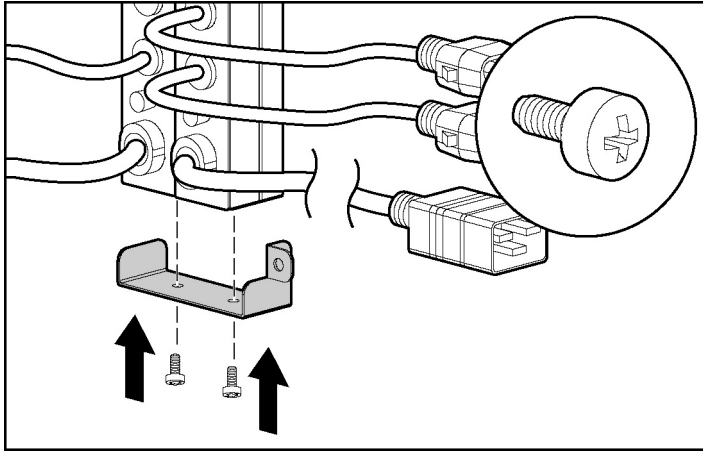
## Installing in a Square- and Round-Holed Rail

**NOTE:** Use the sheetmetal mounting screw that is included with this kit when installing in a square- and round-holed rail.



## Installing the Extension Bars

**NOTE:** Follow these same instructions when using a single-wide extension bar bracket.

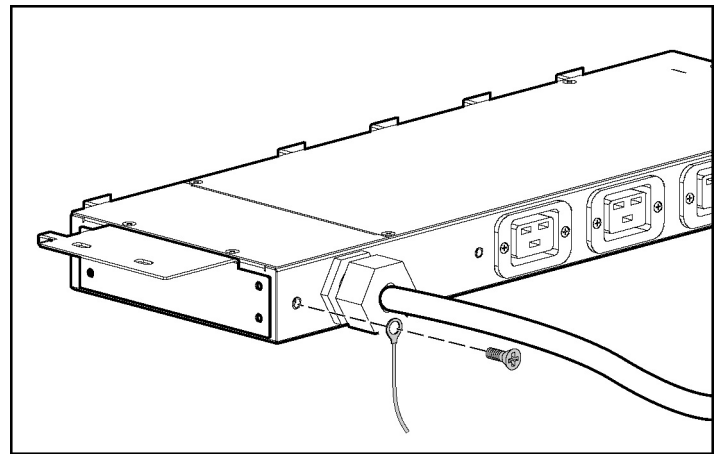


**NOTE:** The power indicator brightness might vary with line voltage.

## Connecting the Ground Bonding Cable

The ground bonding screw is provided as an attachment point for conductors. Use a ground bonding cable if the rack contains any conductors for the purpose of functional grounding or bonding of ungrounded metal parts.

The ground cable is not included.



## Connecting Devices

When connecting devices, distribute the loads evenly to remain within the capability of the extension bars and control unit.

## Checking the Circuit Breakers

If power to a device is interrupted, check the circuit breakers and reset if necessary. If power is still not restored, contact your HP authorized service representative.